

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 26 (LIBERTY ROAD) AND BRENBROOK DRIVE IN BALTIMORE COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THE LEFT TURN PHASES ALONG EAST AND WEST BOUND MD 26 SHALL OPERATE WITH EXCLUSIVE/PERMISSIVE LEFT TURN PHASING. THE SIDE ROAD APPROACHES SHALL OPERATE AS SPLIT SIDE STREET PHASING. THE INTERSECTION SHALL BE MAINTAINED WITH INTERCONNECT TO THE RANDALLSTOWN FIRE DEPARTMENT FIRE PRE-EMPTION WILL BE PROVIDED BY PUSHBUTTON ACTIVATION. AN ADVANCED PEDESTRIAN PHASE SHALL OPERATE UPON ACTUATION OF PUSHBUTTONS FOR CROSSING THE MAINLINE EAST AND WEST LEGS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785
MR. DANIEL WITT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 321-2821
MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761
MS. SUENETTE POPE, - UTILITY ENGINEER
PHONE: (410) 321-2841
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF OF TOD - PHONE DROP
PHONE: (410) 787-7631

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

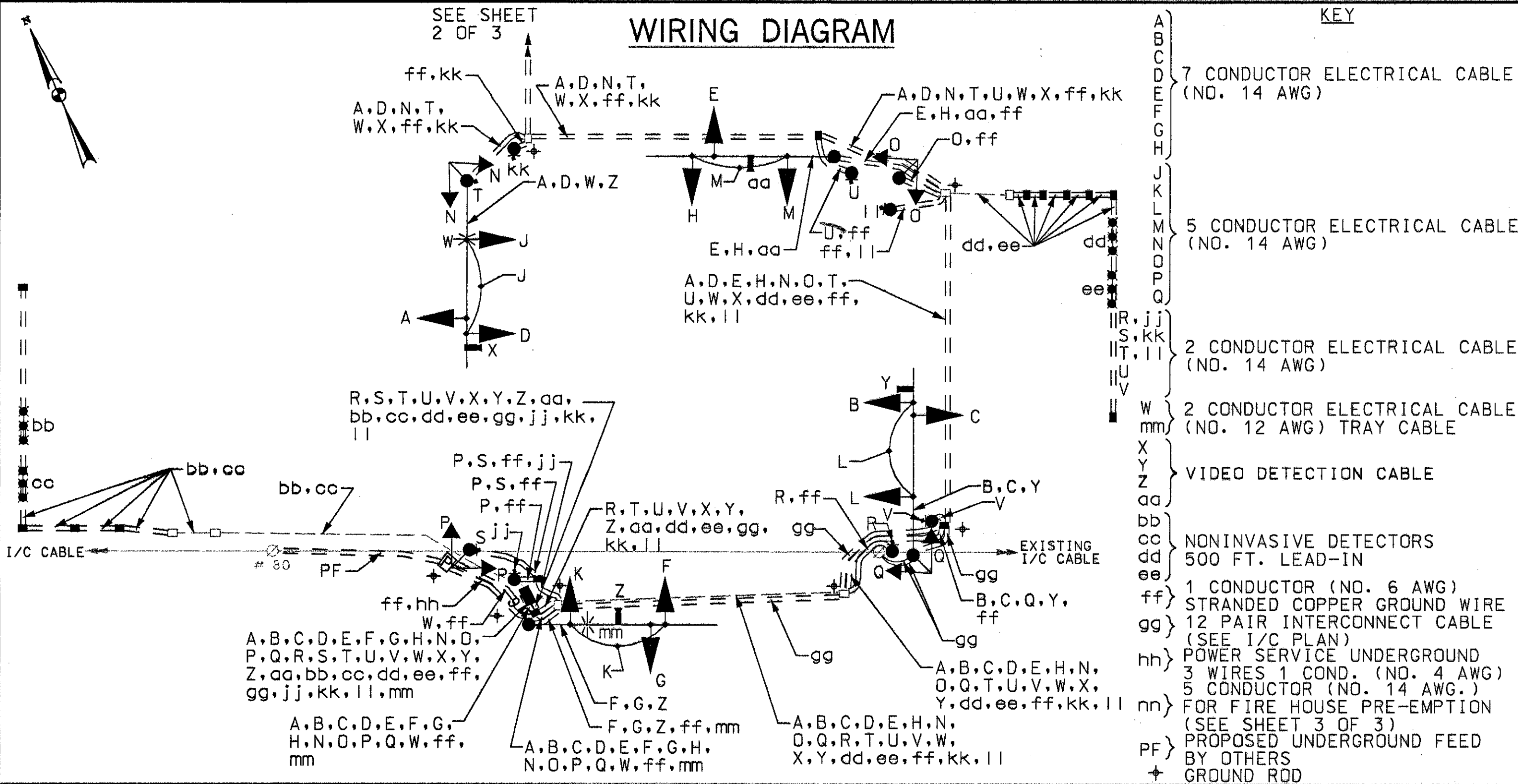
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
9042	BASE MOUNTED (SIZE-6) CABINET WITH ECONOLITE ASC II WITH TELEMETRY AND RACK MOUNTED AMPLIFIERS	EA	1
9044	CONTROLLER CABINET SIZE 6	EA	1
9086	AND VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS CONSISTING OF: R10-12 (36"x42") MAST ARM MOUNT R3-5 (30"x36") MAST ARM MOUNT D-3(2) (VAR.x16") MAST ARM MOUNT M95-1(MOD.) (72"x40") MAST ARM POLE MOUNT R10-4(1) (12"x9") POLE MOUNT	SF EA EA EA EA EA	143 2 3 4 2 8

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
2002	TEST PIT EXCAVATION	CY	5
5003	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH	LF	330
5005	12 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	310
5006	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	200
6002	DEPRESSED CURB AND GUTTER	SF	295
6005	4 INCH CONCRETE SIDEWALK	SF	215
8001	CONCRETE FOR SIGNAL FOUNDATIONS	CY	16
8002	12 INCH PEDESTRIAN SIGNAL HEAD SECTION	EA	16
8005	2 WIRE NAVIGATOR CENTRAL CONTROL UNIT	EA	1
8010	2 WIRE NAVIGATOR PUSHBUTTON STATION	EA	8
8014	CONTROL CABLE, 200 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
8015	CONTROL CABLE, 300 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
8016	CONTROL CABLE, 400 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
8023	MAST ARM POLE (15' T) & 50 FT. MAST ARM	EA	1
8027	PEDESTAL POLE ANY SIZE	EA	8
8029	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	EA	1
8040	DETECTABLE WARNING SURFACE (SURFACE APPLIED)	SF	50
8044	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	590
8049	3 INCH SCHED. 80 PVC CONDUIT-BORED	LF	365
8051	2 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	20
8052	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	1545
8053	4 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	25
8056	4 INCH SCHED. 80 PVC CONDUIT-SLOTTED	LF	360
8058	METERED SERVICE PEDESTAL	EA	1
8061	CABLE 1-CONDUCTOR, NO. 4 AWG-THHN/THWN	LF	200
8065	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE	EA	4
8067	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	16
8070	INSTALL OVERHEAD SIGN	SF	143
8071	VIDEO DETECTION CAMERA	EA	4
8077	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM	EA	3
8084	250 WATT HPS LAMP AND LUMINAIRE	EA	2
8091	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	7
8092	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	12
8093	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	36
8096	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	4
8098	ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED	LF	860
8099	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	835
8101	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	1955
8102	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1575
8103	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	365
8107	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	2
8112	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. CONTACT ED RODENHIZER AT (410) 787-7650 AT LEAST 72 HOURS PRIOR TO REMOVAL OF EXISTING CONTROLLER TO ARRANGE FOR PICKUP. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6	+GG	+GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 1 AND 6	+GG	+GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE	+YG	+YG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	+GG	+GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 5 CHANGE	R	R	R	+YG	+YG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6 ALT	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 ALT CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADV PED PHASE 3 ALT AND 4 ALT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 3 ALT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
3 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY
FIRE HOUSE PRE-EMPTION	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
NORMAL OPERATION	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 26 (LIBERTY ROAD) AT
BRENBROOK DRIVE

GENERAL INFORMATION PLAN

SCALE 1"= 20' DATE 05/12/2005 CONTRACT NO. A17175185

DESIGNED BY S. SMITH COUNTY BALTIMORE

DRAWN BY L. YEH LOGMILE 03002605.94

CHECKED BY S. RENZI T.I.M.S. NO. 0336

F.A.P. NO. N/A TOD NO. N/A

DRAWING NO. TS-555F SHEET NO. 3 OF 3



SABRA, WANG & ASSOCIATES, INC.
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PLOTTED: FRIDAY, APRIL 29, 2005 AT 10:53 AM
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